

## Sedulingam Kandaswamy

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### OBJECTIVE

A highly committed and passionate fresher seeking for a job involving work with experienced engineers that will utilize my knowledge, skills and to be well versed with the technologies in engineering field and put it to good and sincere use for the growth of the organization.

### EDUCATIONAL QUALIFICATION

Course	Institution	University/ Board	Year of Passing	Aggregate
M.Tech Aeronautical	New Horizon College of Engineering, Bengaluru	Autonomous Affiliated to VTU	2017	9.58 CGPA (88.3%)
B.E. Mechanical	The oxford college of Engineering, Bengaluru	Visvesvaraya Technological University	2015	78.98%
PUC	Krupanidhi PU college, Bengaluru	Karnataka State Board	2011	85.5%
10 <sup>th</sup>	Sri Channakeshava High School, Bengaluru	Karnataka State Board	2009	87.52%

### TECHNICAL SKILLS & CERTIFICATIONS

- Design Software: CATIA V5
- Analysis Software: ANSYS 15
- Programming Language: C

### ACHIEVEMENTS

- Secured 2<sup>nd</sup> place in the Interdepartmental Science Quiz held in college and was awarded with a book on Thermodynamics by Physics HOD.
- Student Member of Indian Society of Mechanical Engineers (ISME) during the course of Mechanical Engineering.
- Published a paper entitled “**Evaluation for Mechanical Strength of Aluminium Tubes Filled with Polymers**” in International Research Journal of Engineering and Technology, Volume 4, Issue 6, 2017.

### INTERSHIPS

- Hindustan Aeronautics Limited- Aircraft Research & Design Centre (HAL-ARDC) for duration of 2 weeks on overall operations of HAL.
- Simple Tech Aerospace Private Limited for a duration of 3 months on Manufacturing, Quality Inspection of Aeronautical components and Design of Engineering components.

## PROJECTS

- B.E. Project: - “**Optimization of delivery valve seat operation with switch over from Grinding to Hard Part Turning**” carried out by a team of 4 at **BOSCH**. The project focused on reducing the cycle time and cost of grinding operation performed on the delivery valve seat by implementing a technique called Hard Part Turning. My part of the project was to inspect and maintain the required level of geometric tolerance without losing the functional requirements of the part.
- M.Tech mini Projects
  - Theoretical analysis of a real roof truss structure. This project focused on determining the various loads and reaction forces of each member of the truss structure. The limiting loads and forces were found using theoretical calculations.
  - Stress analysis on wing rib under point and distributed loads using ANSYS. The CATIA model of the wing rib was analyzed for various static loading conditions, with point loads at specific locations on the wing rib structure. The model was imported into ANSYS, meshed suitably and the boundary conditions and loads were set and analyzed for stress concentrations.
- M.Tech Project: - “**Impact analysis on density graded E-glass composite laminate**”. The project focused on determining the low velocity impact resistance of the density graded E-glass laminate of various densities reinforced with polyester resin. The composite was fabricated and tested at low velocity using drop weight test setup; the same was simulated using ANSYS workbench. The impact forces and the impact energy absorbed were calculated and validated.
  - The project was presented in the national conference “Emerging Cutting Edge Technologies in Mechanical Engineering” held on 8<sup>th</sup> April 2017 in NHCE, Bengaluru.

## STRENGTHS

- Strong analytical and people management skills.
- Highly adaptable and work in a new workplace with comfort.
- Passion for constant improvement.
- Good problem solving skills and ability to find unique solutions for challenges.

## PERSONAL PROFILE

SEDULINGAM KANDASWAMY

D.O.B : 5<sup>th</sup> August 1993

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I hereby declare that the details furnished above are true to best of my knowledge.

Sedulingam Kandaswamy